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(54) Title: METHOD, APPARATUS AND USE OF CHELATING AGENTS FOR THE PURIFICATION OF CALCIUM SULPHATE  (57) Abstract  A chemical process for the purification of CaSO <sub>4</sub> utilises the ability of an aqueous solution of a chelating agent to selectively dissolve CaSO <sub>4</sub> , in that the initial extraction can be carried out at certain pH and CaSO <sub>4</sub> can be recovered by titration to a different pH (usually a lower pH) following a mechanical treatment, such as centrifugation or filtration, to separate the aqueous chelate solution from insoluble material. Also claimed are an apparatus and the use of chelating agents therefor.			